This Page Is Inserted by IFW Operations and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problem Mailbox.

Intereby certify that on the date specified below, this correspondence is being deposited with the United States Postal Service as first-class mail in an envelope addressed to the Commissioner for Patents, Washington, DC 20231.

Date VIII

Jeanne Connelly

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants

Jeffrey Chan et al.

Application No.

09/749,303

Confirmation No.: 5430

Filed

December 27, 2000

For

METHOD AND SYSTEM FOR ANALYZING PERFORMANCE

OF A TURBINE

Docket No.

243768021US

Date

June 11, 2001

Commissioner for Patents Washington, DC 20231

TRANSMITTAL OF FORMAL DRAWINGS

Sir:

Enclosed please find 13 sheets of formal drawings (Figures 1-13) for the above-identified application.

Respectfully submitted,

Perkins Coie LLP

Maurice J. Pirio

Registration No. 33,273

MJP:jc

Enclosures:

13 Sheets of Drawings

PERKINS COIE LLP P.O. Box 1247 Seattle, Washington 98111-1247 (206) 583-8888

FAX: (206) 583-8500

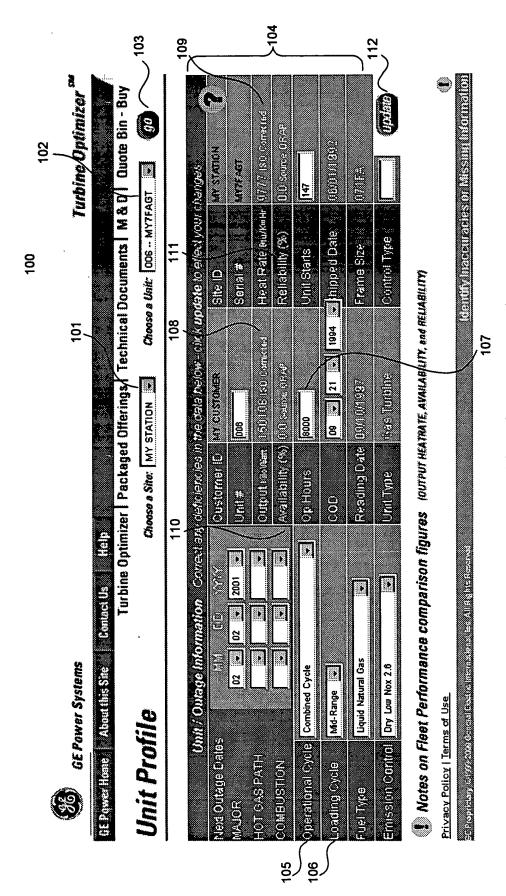
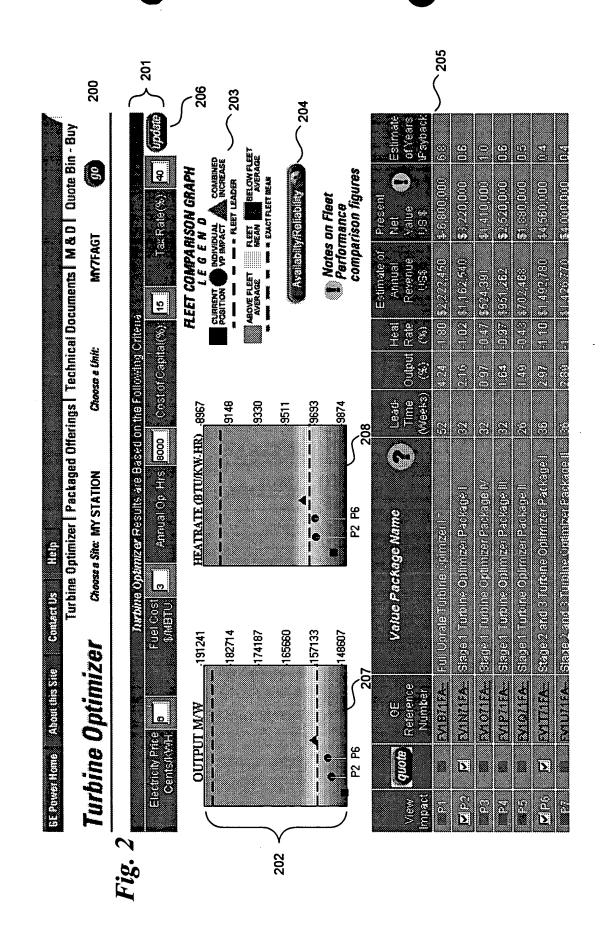


Fig. 1



COPICAL COLUMN

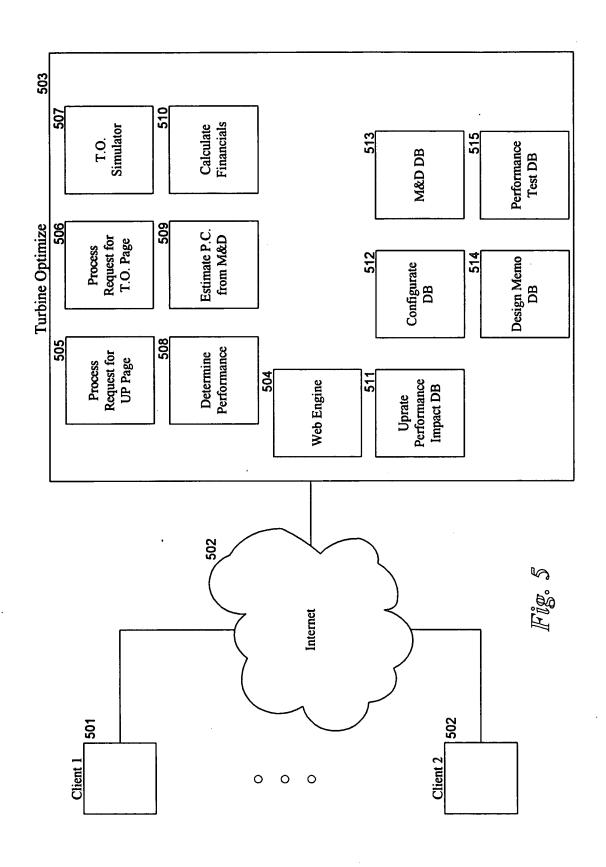
	Performance impact (parts only)	1.30	22.0-	1.20	-0.77
	Stg2, Stg3	0.59	-0.20	0.59	-0.20
300	SZB, SZS, S3B, S3S	0.09	0.03	60.0	0.03
	S3B. S3S	-0.03	20'0	-0.03	20.0
	\$2B, \$2S	0.08	0.02	80.0	0.02
304	CDC/ HPP	0.00	0.00	0.00	0.00
	88 GV	0.00	00.0	0.00	0.00
mance trix	S1B, S1N	0.13	0.36	0.03	0.36
Uprate Performance Impact Matrix	STN	0.31 0.70	-0.55	0.70	-0.55
Uprate Imp	S18,	0.31	0.02	0.21	0.02
~	Stgt	0.64	-0.51	0.54	-0.51
303	Current Rating	163272	9623	165151	9461
8		Output	뚶	Output	ឣ
302	\ NS	297031 Output		297112 Output	
301	Customer	ACME	Tf=2420, IGV=90	Smith	Tf=2420
		305	~	Ļ	306 (
		7	5		ಹ

	FV4V	n/a	n/a	n/a	n/a
	FV4U	n/a	n/a	n/a	n/a
	FV4T	n/a	n/a	n/a	n/a
	FV4P	n/a	n/a	n/a	n/a
	FV4B	n/a	n/a	n/a	n/a
	FV1W FV1N FV10 FV10 FV4B	0.125	0.363	0.125	0.363
304	FV10	0.6993	0.0733 -0.506 -0.553	0.6993	0.0733 -0.506 -0.553 0.363
3	NYA	0.639	-0.506	0.639	-0.506
	FV1W	-0.033 0.639	0.0733	-0.033	0.0733
	FV1V	0.0799	0.02	0.086 0.0799 -0.033 0.639 0.6993	0.02
	FV1T FV1U	0.086	-0.198 0.026 0.02	0.086	-0.198 [0.026 [0.02
		0.594	-0.198	0.594	-0.198
3	FV1P	0.313	0.02	0.313	0.02
	EV18		-0.77	1.2	-0.77 0.02
	Cycle Deck Run				
	Sum Parts+	د .	-0.77	.3	-0.77
	F	0	0	0	0

Fig. 3

Omage Optimizer 24						מכוכים ביים		
Selected Unit 6 5 100	 - -	1 1		1 1 1	Event Name: Start.	~	seti DEMO 2000-09-26 2000-09-30	10+22265 (enter)
Profile En	Enhance Te Packages	Tech Docs	Scape	Tech Dacs Scope Quote	Quate			
Gas Turbine Optimizer	Optimizer							
Hermity Presi	Fuel Costs (4/MBTU)	Op. Hest 8000 (annes)	8000	Capital Costs [12]		Tar Ratte 40 (%)	Save	
AYAI ABIUTT	100 100 100 100 100 100 100 100 100 100	RELABILITY		100 H 100 T	Port No.	Curbine Optimizer in Current Performance Lavel Performance Impect of all Pect Combined Impect of all Pect Loa Weerage Performance Aboverage Performance Aboverage Performance Below Average Performance	Current Performance Level Current Performance Level Performance Impact of Pleckages Combined Impact of all Packages Combined Impact of all Packages Above Average Performance Average Performance Below Average Performance	, ma
-				Ç.	Chan	Change' Graph View to Output and Heatrate	w to Change	Tg.
Paramandad V	Becne masded Yaku Parkagos! Number Padeage Name	Lead Time C	H Oatpet R	Estimated Heat Research Parks per Year		hat Present y	Years to Mess Payback Impact	
. II	Stage 1 Turbine Optimizer Package I	170		-1.02 \$643,767		_	11 Dr 52	
EVIOZIEA:	Stage 1 Turbine Optimizer Package 1V	170	0- 260	-0.47 \$291.423		\$670,000	81.8	
EV1P71FA	Stage 1 Turbine Optimizer Package III	170	1.64 -0	-0.97 \$557,379		\$1,580,000	1.1	
	Stage 1 Turbine							

Fig. 4



(Site, Unit)

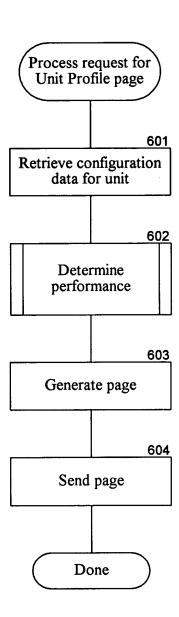


Fig. 6

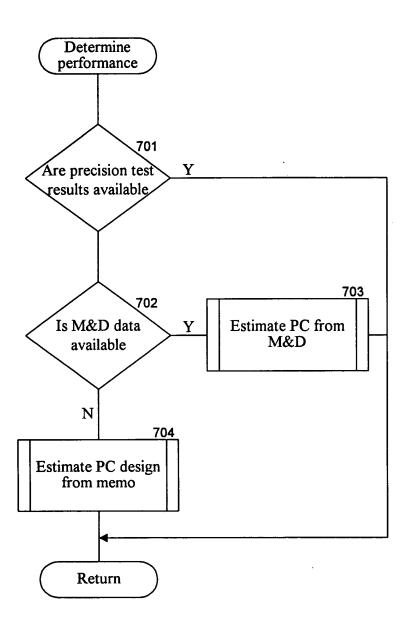


Fig. 7

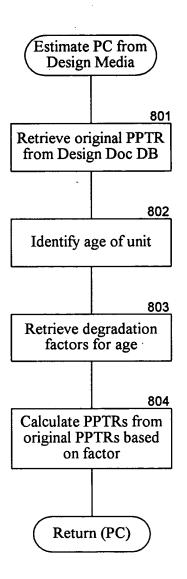
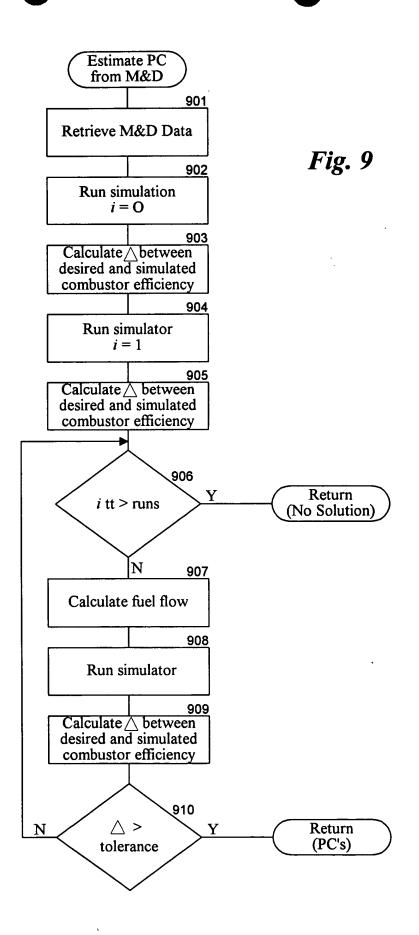


Fig. 8



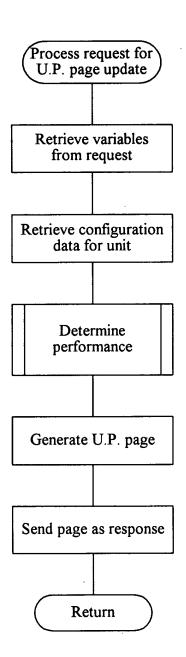


Fig. 10

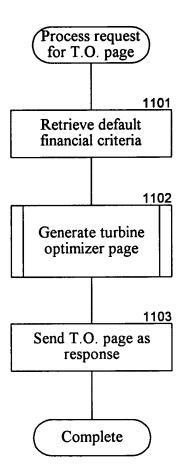
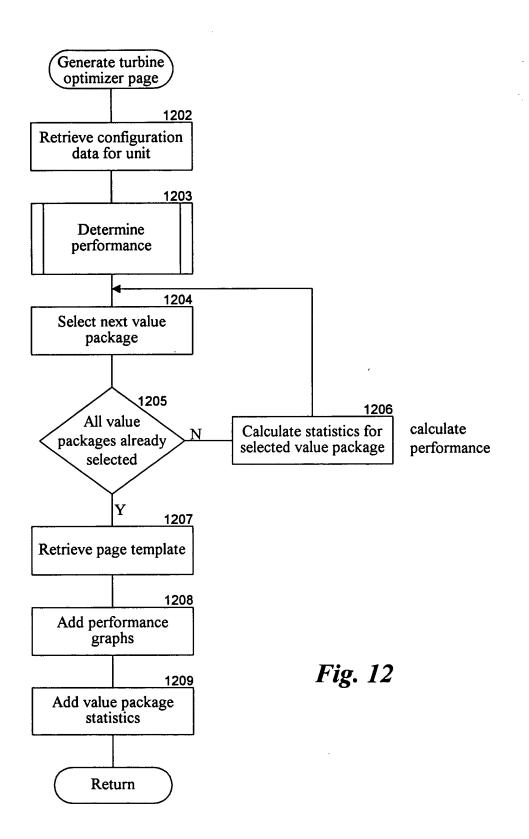


Fig. 11



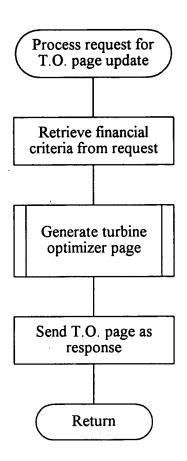


Fig. 13